

2015 BRAIN Investigators Meeting
December 10-11, 2015
Bethesda North Marriott Hotel and Conference Center

Invited Participants

- BRAIN Initiative Awardees invited by NIH, NSF, DARPA and IARPA
- Federal staff from these and other agencies representing the BRAIN Initiative
- Representatives from non-federal organizations participating in the BRAIN Initiative

Pre-Meetings

NIH will be having pre-meetings on Wednesday December 9th for coordination of research under specific NIH Program Announcements. The pre-meetings are being organized by specific project teams and are not part of this program.

Day 1 (Thursday December 10)

7:30am-8:00am Registration and Poster Setup

8:00am-8:10am Welcome and Program Overview

8:10am-9:00am Plenary Address *Dr. Karl Deisseroth*

(D.H. Chen Professor of Bioengineering and of Psychiatry and Behavioral Sciences, Stanford University, HHMI)

9:00am-10:30am Research Highlight Talks 1

Speakers will be chosen by federal staff from poster abstracts.

Track 1: Cells and Circuits

Track 2: Large-Scale Recording and Modulation

Track 3: Understanding the Brain

Track 4: Human Neuroscience

10:30am-10:45am BREAK

10:45am-12:15pm Research Highlight Talks 2

Speakers will be chosen by federal staff from poster abstracts.

Track 1: Cells and Circuits

Track 2: Large-Scale Recording and Modulation

Track 3: Understanding the Brain

Track 4: Human Neuroscience

12:15pm-1:15pm LUNCH

1:15pm-3:00pm Cross-Cutting Themes

Data Infrastructure

Technologies developed by the BRAIN Initiative will lead to the generation of diverse datasets, with distinctive and heterogeneous challenges and opportunities. What are the commonalities among these different types of data, and what principles should guide policies for their coordination and access? What are the needs for the underlying infrastructure (data, computational resources, software, personnel) to support the integration and analysis of these datasets? Major efforts that are already underway, including plans for centralized data coordination from DARPA, IARPA, and the Allen BRAIN Institute, and efforts focused on federated models, such as the CRCNS-associated Neurodata Without Borders project and work from HHMI Janelia Farm Research Campus. Talks will be followed by a panel discussion focusing on common issues to be addressed.

Technology Integration

The BRAIN Initiative is funding a diverse portfolio of interweaving, and in some cases competing, technologies for understanding the brain. Can we predict and plan for what is in store for these technologies over the next few years? How will they best be integrated into turnkey experimental systems to address fundamental questions of neural function? The session will feature presentations and discussion from technology developers and neuroscience experimentalists, to address strategic questions of technology recombination and assimilation into research practice.

3:00pm-7:00pm Poster Session 1

Posters will be focused on the proposed research funded by BRAIN awards, rather than completed research results.

Day 2 (Friday December 11)

8:30am-12:30pm Poster Session 2

Posters will be focused on the proposed research funded by BRAIN awards, rather than completed research results.

12:30pm-1:30pm LUNCH

1:30pm-4:00pm Agency-Specific Breakouts (details to be determined)